STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

Source:

Date Processed by STIC:

10/592,919 IFWP

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 4.4.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- 3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
 U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

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ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 10/592,919
ATTN: NEW RULES CASE	ES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE
lWrapped Nucleic Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Leng	th The rules require that a line not exceed 72 characters in length. This includes white spaces.
3Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters , instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequence (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
Skipped Sequence (NEW RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence. (see item 11 below)
//Use of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules
PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13 Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFWP

DATE: 09/25/2006 RAW SEQUENCE LISTING PATENT APPLICATION: US/10/592,919 TIME: 10:25:26

Input Set : A:\CORE0037USASEQ.txt

Output Set: N:\CRF4\09252006\J592919.raw

```
Does Not Comply
Does Not Comply
Corrected Diskette Needed

Corrected Diskette
      4 <110> APPLICANT: Michael, T. Migawa
              Walter F. Lima
              Eric E. Swayze
      6
              Joshua Nichols
              Hongjiang Wu
              Thazha P. Prakash
              Tadeusz Krzysztof Wyrzykiewicz
     10
              Balkrishen Bhat
     11
              Stanley T. Crooke
     12
     15 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR OPTIMIZING
              CLEAVAGE OF RNA BY RNASE H
     16
     19 <130> FILE REFERENCE: CORE0037USA
C--> 21 <140> CURRENT APPLICATION NUMBER: US/10/592,919
C--> 21 <141> CURRENT FILING DATE: 2006-09-15
     21 <150> PRIOR APPLICATION NUMBER: PCT/US2005/008428
     22 <151> PRIOR FILING DATE: 2005-03-15
     24 <150> PRIOR APPLICATION NUMBER: 60/609,516
     25 <151> PRIOR FILING DATE: 2004-09-13
     27 <150> PRIOR APPLICATION NUMBER: 60/567,016
     28 <151> PRIOR FILING DATE: 2004-04-29
     30 <150> PRIOR APPLICATION NUMBER: 60/553,646
     31 <151> PRIOR FILING DATE: 2004-03-15
     33 <160> NUMBER OF SEQ ID NOS: 48
     35 <170> SOFTWARE: FastSEQ for Windows Version 4.0
     37 <210> SEQ ID NO: 1
     38 <211> LENGTH: 20
     39 <212> TYPE: DNA
     40 <213> ORGANISM: Artificial Sequence
     42 <220> FEATURE:
     43 <223> OTHER INFORMATION: Synthetic oligonucleotide
     45 <400> SEQUENCE: 1
     46 ctacgctttc cacgcacagt
                                                                              20
     48 <210> SEQ ID NO: 2
     49 <211> LENGTH: 20
     50 <212> TYPE: DNA
     51 <213> ORGANISM: Artificial Sequence
     53 <220> FEATURE:
     54 <223> OTHER INFORMATION: Synthetic oligonucleotide
     56 <400> SEQUENCE: 2
     57 agtttaggtc tccgatcgtc
                                                                              20
     59 <210> SEQ ID NO: 3
     60 <211> LENGTH: 20
     61 <212> TYPE: DNA
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/592,919

DATE: 09/25/2006

TIME: 10:25:26

Input Set : A:\CORE0037USASEQ.txt

Output Set: N:\CRF4\09252006\J592919.raw

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62 <213> ORGANISM: Artificial Sequence
64 <220> FEATURE:
65 <223> OTHER INFORMATION: Synthetic oligonucleotide
67 <400> SEQUENCE: 3
68 ctgctagcct ctggatttga
                                                                     20
70 <210> SEQ ID NO: 4
71 <211> LENGTH: 2160
72 <212> TYPE: DNA
73 <213> ORGANISM: Mus musculus
75 <400> SEQUENCE: 4
76 ggcgccctgc tctcccggcg gggcggcgga gggggcgggc tggccggcgc acggtgatgt 60
77 ggcgggactc tttgtgcact gcggcaggat acgcgcttgg gcgtcgggac gcggctgcgc 120
78 tcagctctct cctctcggaa gctgcagcca tgatggaagt ttgagagttg agccgctgtg 180
79 aggccaggcc cggcgcaggc gagggagatg agagacggcg gcggccacgg cccagagccc 240
80 ctctcagcgc ctgtgagcag ccgcgggggc agcgccctcg gggagccggc cgggcggcgg 300
81 cggcggcagc ggcggcggc ctcgcctcct cgtcgtctgt tctaaccggg cagcttctga 360
82 gcagcttcgg agagagacgg tggaagaagc cgtgggctcg agcgggagcc ggcgcaggct 420
83 cggcggctgc acctcccgct cctggagcgg gggggagaag cggcggcggc ggccgcggct 480
84 ccggggaggg ggtcggagtc gcctgtcacc attgccaggg ctgggaacgc cggagagttg 540
85 ctctctcccc ttctcctgcc tccaacacgg cggcggcggc ggcggcacgt ccagggaccc 600
86 gggccggtgt taagcctccc gtccgccgcc gccgcacccc ccctggcccg ggctccggag 660
87 gccgccggag gaggcagccg ctgcgaggat tatccgtctt ctccccattc cgctgcctcg 720
88 gctgccaggc ctctggctgc tgaggagaag caggcccagt ctctgcaacc atccagcagc 780
89 cgccgcagca gccattaccc ggctgcggtc cagggccaag cggcagcaga gcgaggggca 840
90 tcagcgaccg ccaagtccag agccatttcc atcctgcaga agaagcctcg ccaccagcag 900
91 cttctgccat ctctctcctc ctttttcttc agccacaggc tcccagacat gacagccatc 960
92 atcaaagaga tcgttagcag aaacaaaagg agatatcaag aggatggatt cgacttagac 1020
93 ttgacctata tttatccaaa tattattgct atgggatttc ctgcagaaag acttgaaggt 1080
94 gtatacagga acaatattga tgatgtagta aggtttttgg attcaaagca taaaaaccat 1140
95 tacaagatat acaatctatg tgctgagaga cattatgaca ccgccaaatt taactgcaga 1200
96 gttgcacagt atccttttga agaccataac ccaccacagc tagaacttat caaacccttc 1260
97 tgtgaagatc ttgaccaatg gctaagtgaa gatgacaatc atgttgcagc aattcactgt 1320
98 aaagctggaa agggacggac tggtgtaatg atttgtgcat atttattgca tcggggcaaa 1380
99 tttttaaagg cacaagaggc cctagatttt tatggggaag taaggaccag agacaaaaag 1440
100 ggagtcacaa ttcccagtca gaggcgctat gtatattatt atagctacct gctaaaaaat 1500
101 cacctggatt acagacccgt ggcactgctg tttcacaaga tgatgtttga aactattcca 1560
102 atgttcagtg gcggaacttg caatcctcag tttgtggtct gccagctaaa ggtgaagata 1620
103 tattcctcca attcaggacc cacgcggcgg gaggacaagt tcatgtactt tgagttccct 1680
104 cagccattgc ctgtgtgtgg tgatatcaaa gtagagttct tccacaaaca gaacaagatg 1740
105 ctcaaaaagg acaaaatgtt tcacttttgg gtaaatacgt tcttcatacc aggaccagag 1800.
106 gaaacctcag aaaaagtgga aaatggaagt ctttgtgatc aggaaatcga tagcatttgc 1860
107 agtatagage gtgcagataa tgacaaggag tatettgtae teaceetaae aaaaaaegat 1920
108 cttgacaaag caaacaaaga caaggccaac cgatacttct ctccaaattt taaggtgaaa 1980
109 ctatacttta caaaaacagt agaggagcca tcaaatccag aggctagcag ttcaacttct 2040
110 gtgactccag atgttagtga caatgaacct gatcattata gatattctga caccactgac 2100
111 tctgatccag agaatgaacc ttttgatgaa gatcagcatt cacaaattac aaaagtctga 2160
114 <210> SEQ ID NO: 5
115 <211> LENGTH: 24
116 <212> TYPE: DNA
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RAW SEQUENCE LISTING

DATE: 09/25/2006 TIME: 10:25:26 PATENT APPLICATION: US/10/592,919

Input Set : A:\CORE0037USASEQ.txt

Output Set: N:\CRF4\09252006\J592919.raw

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117 <213> ORGANISM: Artificial Sequence
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119 <220> FEATURE:

120 <223> OTHER INFORMATION: Synthetic oligonucleotide

122 <400> SEQUENCE: 5

123 atgacaatca tgttgcagca attc 24

125 <210> SEQ ID NO: 6

126 <211> LENGTH: 25

127 <212> TYPE: DNA

128 <213> ORGANISM: Artificial Sequence

130 <220> FEATURE:

131 <223> OTHER INFORMATION: Synthetic oligonucleotide

133 <400> SEQUENCE: 6

134 cgatgcaata aatatgcaca aatca 25

136 <210> SEQ ID NO: 7

137 <211> LENGTH: 28

138 <212> TYPE: DNA

139 <213> ORGANISM: Artificial Sequence

141 <220> FEATURE:

142 <223> OTHER INFORMATION: Synthetic oligonucleotide

144 <400> SEQUENCE: 7

145 ctgtaaagct ggaaagggac ggactggt 28

147 <210> SEQ ID NO: 8

148 <211> LENGTH: 20

149 <212> TYPE: DNA

150 <213> ORGANISM: Artificial Sequence

152 <220> FEATURE:

153 <223> OTHER INFORMATION: Synthetic oligonucleotide

155 <400> SEQUENCE: 8

156 ccttccctga aggttcctcc

158 <210 > SEQ ID NO: 9

160 <220> FEATURE:

161 <223 > OTHER INFORMATION: Synthetic oligonucleotide

163 <400> SEQUENCE: 9

W--> 164 | 000

166 <210> SEQ ID NO: 10

167 <211> LENGTH: 12

168 <212> TYPE: RNA

169 <213> ORGANISM: Artificial Sequence

171 <220> FEATURE:

172 <223> OTHER INFORMATION: Synthetic oligonucleotide

174 <400> SEQUENCE: 10

175 cgcgaauucg cg

177 <210> SEQ ID NO: 11

178 <211> LENGTH: 12

179 <212> TYPE: RNA

180 <213> ORGANISM: Artificial Sequence

182 <220> FEATURE:

183 <223> OTHER INFORMATION: Synthetic oligonucleotide

185 <400> SEQUENCE: 11

If this is Interviewally Skipped sequence, Skipped sequence, Skipped sequence, Skipped sheet. Summery Sheet.

20

12

RAW SEQUENCE LISTING PATENT APPLICATION: US/10/592,919 DATE: 09/25/2006 TIME: 10:25:26

Input Set : A:\CORE0037USASEQ.txt

Output Set: N:\CRF4\09252006\J592919.raw

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186 gcgcuuaagc gc
                                                                             12
     188 <210> SEQ ID NO: 12
     189 <211> LENGTH: 19
     190 <212> TYPE: RNA
     191 <213> ORGANISM: Artificial Sequence
     193 <220> FEATURE:
     194 <223> OTHER INFORMATION: Synthetic oligonucleotide
     196 <400> SEQUENCE: 12
                                                                            19
     197 cgagaggcgg acgggaccg
     199 <210> SEQ ID NO: 13
     200 <211> LENGTH: 21
     201 <212> TYPE: DNA
     202 <213> ORGANISM: Artificial Sequence
     204 <220> FEATURE:
     205 <223> OTHER INFORMATION: Synthetic oligonucleotide
     207 <220> FEATURE:
     208 <221> NAME/KEY: misc feature
     209 <222> LOCATION: 1-19
     210 <223> OTHER INFORMATION: Bases at these positions are RNA
     212 <400> SEQUENCE: 13
     213 cgagaggcgg acgggaccgt t
                                                                             21
     215 <210> SEQ ID NO: 14
     216 <211> LENGTH: 21
     217 <212> TYPE: DNA
     218 <213 > ORGANISM: Artificial Sequence
     220 <220> FEATURE:
     221 <223> OTHER INFORMATION: Synthetic oligonucleotide
     223 <220> FEATURE:
     224 <221> NAME/KEY: misc_feature
     225 <222> LOCATION: 1-19
     226 <223> OTHER INFORMATION: Bases at these positions are RNA
     228 <400> SEQUENCE: 14
     229 cggtcccgtc cgcctctcgt t
                                                                             21
     231 <210> SEQ ID NO: 15
     232 <211> LENGTH: 20
     233 <212> TYPE: DNA
     234 <213> ORGANISM: Artificial Sequence
     236 <220> FEATURE:
     237 <223> OTHER INFORMATION: Synthetic oligonucleotide
     239 <220> FEATURE:
     240 <221> NAME/KEY: misc_feature
     241 <222> LOCATION: 4
     242 <223> OTHER INFORMATION: N = tetrafluoroindole
     244 <400> SEQUENCE: 15
W--> 245 ctgntagcct ctggatttga
                                                                             20
     247 <210> SEQ ID NO: 16
     248 <211> LENGTH: 20
     249 <212> TYPE: DNA
     250 <213> ORGANISM: Artificial Sequence
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/592,919
DATE: 09/25/2006
TIME: 10:25:26

Input Set : A:\CORE0037USASEQ.txt

Output Set: N:\CRF4\09252006\J592919.raw

252 <220> FEATURE: 253 <223> OTHER INFORMATION: Synthetic oligonucleotide 255 <220> FEATURE: 256 <221> NAME/KEY: misc feature 257 <222> LOCATION: 5 258 <223> OTHER INFORMATION: N = tetrafluoroindole 260 <400> SEQUENCE: 16 W--> 261 ctgcnagcct ctggatttga 20 263 <210> SEQ ID NO: 17 264 <211> LENGTH: 20 265 <212> TYPE: DNA 266 <213> ORGANISM: Artificial Sequence 268 <220> FEATURE: 269 <223> OTHER INFORMATION: Synthetic oligonucleotide 271 <220> FEATURE: 272 <221> NAME/KEY: misc_feature 273 <222> LOCATION: 6 274 <223> OTHER INFORMATION: N = tetrafluoroindole 276 <400> SEQUENCE: 17 W--> 277 ctgctngcct ctggatttga 20 279 <210> SEQ ID NO: 18 280 <211> LENGTH: 20 281 <212> TYPE: DNA 282 <213> ORGANISM: Artificial Sequence 284 <220> FEATURE: 285 <223> OTHER INFORMATION: Synthetic oligonucleotide 287 <220> FEATURE: 288 <221> NAME/KEY: misc_feature 289 <222> LOCATION: 7 290 <223> OTHER INFORMATION: N = tetrafluoroindole 292 <400> SEQUENCE: 18 W--> 293 ctgctancct ctggatttga 20 295 <210> SEQ ID NO: 19 296 <211> LENGTH: 20 297 <212> TYPE: DNA 298 <213> ORGANISM: Artificial Sequence 300 <220> FEATURE: 301 <223> OTHER INFORMATION: Synthetic oligonucleotide 303 <220> FEATURE: 304 <221> NAME/KEY: misc_feature 305 <222> LOCATION: 8 306 <223> OTHER INFORMATION: N = tetrafluoroindole 308 <400> SEQUENCE: 19 W--> 309 ctgctagnct ctggatttga 20 311 <210> SEQ ID NO: 20 312 <211> LENGTH: 20 313 <212> TYPE: DNA 314 <213> ORGANISM: Artificial Sequence

316 <220> FEATURE:

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 09/25/2006
PATENT APPLICATION: US/10/592,919 TIME: 10:25:27

Input Set : A:\CORE0037USASEQ.txt

Output Set: N:\CRF4\09252006\J592919.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

```
Seq#:15; N Pos. 4
Seq#:16; N Pos. 5
Seq#:17; N Pos. 6/
Seq#:18; N Pos. 7
Seq#:19; N Pos. 8
Seq#:20; N Pos. 10
Seq#:21; N Pos. 5
Seq#:22; N Pos. 17
Seq#:23; N Pos. 16
Seq#:24; N Pos. 15
Seq#:25; N Pos. 14
Seq#:26; N Pos. 13
Seq#:27; N Pos. 5,15
Seq#:28; N Pos. 16
Seq#:29; N Pos. 7
Seq#:30; N Pos. 8
Seq#:31; N Pos. 9
Seq#:32; N Pos. 10
Seq#:33; N Pos. 11
Seq#:34; N Pos. 12
Seq#:35; N Pos. 13
Seq#:36; N Pos. 14
Seq#:37; N Pos. 15
Seq#:38; N Pos. 4
Seq#:39; N Pos. 5
Seq#:40; N Pos. 6
Seq#:41; N Pos. 7
Seq#:42; N Pos. 8
Seq#:43; N Pos. 13
Seq#:44; N Pos. 14
Seq#:45; N Pos. 15
Seq#:46; N Pos. 16
Seq#:47; N Pos. 17
Seq#:48; N Pos. 6,16
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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/592,919

DATE: 09/25/2006

TIME: 10:25:27

Input Set: A:\CORE0037USASEQ.txt
Output Set: N:\CRF4\09252006\J592919.raw

L:21 M:270 C: Current Application Number differs, Replaced Current Application No L:21 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:164 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (9) SEQUENCE: L:245 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0 L:261 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0 L:277 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0 L:293 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0 L:309 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0 L:325 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0 L:341 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0 L:357 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0 L:373 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0 L:389 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0 L:405 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0 "n" or "Xaa" used, for SEQ ID#:26 after pos.:0 L:421 M:341 W: (46) L:437 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0 L:453 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0 L:472 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0 L:491 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0 L:510 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0 L:527 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0 L:543 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0 L:561 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0 L:577 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0 L:594 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:0 L:612 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0 L:628 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0 L:645 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:0 "n" or "Xaa" used, for SEQ ID#:40 after pos.:0 L:662 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:0 L:678 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:0 L:694 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:0 L:710 M:341 W: (46) L:726 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:0 L:742 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:0 L:758 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:0 L:774 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:0 L:790 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:0